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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------|---------------------|----------------------|---------------------|------------------|
| 09/696,566 | 10/25/2000 | Richard H. Boivie | YOR920000591US1 | 2909 |
| 23334 | 7590 02/25/2005 | | EXAMINER | |
| FLEIT, KAI | IN, GIBBONS, GUTMAI | TRAN, PHILIP B | | |
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| ONE BOCA COMMERCE CENTER | | | ART UNIT | PAPER NUMBER |
| 551 NORTHWEST 77TH STREET, SUITE 111 | | | 2155 | |
| | ON, FL 33487 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|---|--|---|--|--|--|--|
| Office Action Summary | | 09/696,566 | BOIVIE, RICHARD H. | | | |
| | | Examiner | Art Unit | | | |
| | | Philip B Tran | 2155 | | | |
| Period fo | The MAILING DATE of this communication a or Reply | appears on the cover sheet with the | e correspondence address | | | |
| THE - Exte after - If the - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a representation of the provision of t | N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) od will apply and will expire SIX (6) MONTHS fructure, cause the application to become ABANDO | timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)⊠ | 1) Responsive to communication(s) filed on <i>04 January 2005</i> . | | | | | |
| 2a) | This action is FINAL . 2b)⊠ T | his action is non-final. | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Dispositi | ion of Claims | <i>p</i> | | | | |
| 5) <u></u> 6)⊠ | Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are with the claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and | lrawn from consideration. | | | | |
| Applicati | ion Papers | | | | | |
| 10) | The specification is objected to by the Exami The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the | ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is a | See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d). | | | |
| Priority u | ınder 35 U.S.C. § 119 | | | | | |
| 12) <u> </u> | Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a li | ents have been received. ents have been received in Application riority documents have been receive eau (PCT Rule 17.2(a)). | ation No ived in this National Stage | | | |
| Attachment | • | _ | | | | |
| | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) | 4) ☐ Interview Summa Paper No(s)/Mail | | | | |
| 3) 🔲 Inforr | nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0r No(s)/Mail Date | | I Patent Application (PTO-152) | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3, 6, 8, 10, 13-15 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggerty et al (Hereafter, Haggerty), U.S. Pat. No. 6,331,983 in view of Hardjono, U.S. Pat. No. 6,643,773.

Regarding claim 1, Haggerty teaches a method for distributing packets or messages efficiently across a network of information processing units (= Mcast Hosts) and intermediate nodes (= Mcast Routers/Switches) (i.e., multicasting packets across switch/router networks) [see Figs. 2-5 and Abstract], the method on an information processing unit comprising the steps of :

receiving a message created by a user with a plurality of destinations, the user being the sender of the mail message (i.e., receiving multicast packet with destinations IP addresses of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12]; and

sending a single copy of the message, in a multicast packet including a plurality of destination addresses, across the network via at least one intermediate nodes to addresses corresponding to the plurality of destination addresses (i.e., copying an

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incoming multicast packet onto each of its going tree links) [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45] using a reliable multicast technique (i.e., reliable delivery of multicast packets/messages with acknowledgment) [see Col. 17, Lines 30-64].

Haggerty does not explicitly teach distributing electronic mail message across the network using multicast technique. However, Haggerty does suggest the use of multicasting in transmission of messages/packets over the Internet such as transmission of corporate messages to employees and video/audio conferencing [see Col. 7, Lines 5-20]. This implies that there are some forms of electronic messages involved in transmission/reception in the network.

Hardjono, in the same field of messages/packets multicasting endeavor, discloses multicasting technique is well-known in the art for transmitting data messages such as e-mail messages to selected groups of users across the network like the Internet [see Hadjono, Abstract and Col. 1, Lines 13-25]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more users to easily create and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

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Claims 3 and 6 are rejected under the same rationale set forth above to claim 1.

Regarding claim 8, Haggerty teaches a method for distributing packets or messages across a network of information processing units (= Mcast Hosts) and intermediate nodes (= Mcast Routers/Switches) (i.e., multicasting packets across switch/router networks) [see Figs. 2-5 and Abstract], the method on an intermediate node comprising the steps of :

receiving a message in a multicast packet including a plurality of destination addresses (i.e., receiving multicast packet with destinations IP addresses of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12];

determining one or more "next hops" corresponding to the plurality of destination addresses for forwarding the packet (i.e., determining where the packet gets routed to next) [see Col. 12, Line 55 to Col. 13, Line 9];

replicating the packet for each "next hop" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22]; and

forwarding one copy of the packet to each of the "next hops" (i.e., copying an incoming multicast packet onto each of its going tree links) [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45].

Haggerty does not explicitly teach distributing electronic mail message across the network using multicast technique. However, Haggerty does suggest the use of multicasting in transmission of messages/packets over the Internet such as transmission of corporate messages to employees and video/audio conferencing [see

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Col. 7, Lines 5-20]. This implies that there are some forms of electronic messages involved in transmission/reception in the network.

Hardjono, in the same field of messages/packets multicasting endeavor, discloses multicasting technique is well-known in the art for transmitting data messages such as e-mail messages to selected groups of users across the network like the Internet [see Hadjono, Abstract and Col. 1, Lines 13-25]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more users to easily create and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

Regarding claim 10, Haggerty teaches the method as defined in claim 8 with all of the steps such as determining one or more "next hops" for forwarding the packet (i.e., determining where the packet gets routed to next) [see Col. 12, Line 55 to Col. 13, Line 9], replicating the packet for each "next hop" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22], and forwarding one copy of the packet to each of the "next hops" (i.e., copying an incoming multicast packet onto each of its going tree links) [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45]. In

addition, Haggerty further teaches multicasting of different types of packets across the networks [see Col. 11, Lines 45-67 and Col. 12, Lines 30-31 and Figs. 4-5]. This suggests that multiple packets are processed and sent across the network from one hop to the next. Therefore, the determining, replicating and forwarding steps are repetitively executed for each newly received packet.

Regarding claim 13, Haggerty teaches a computer readable medium including instructions for distributing packets or messages efficiently across a network of information processing units (= Mcast Hosts) and intermediate nodes (= Mcast Routers/Switches) (i.e., multicasting packets across switch/router networks) [see Figs. 2-5 and Abstract], the computer readable medium comprising instructions for :

receiving a message in a multicast packet including a plurality of destination addresses (i.e., receiving multicast packet with destinations IP addresses of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12];

determining the "next hop" for each destination address of the plurality of destination addresses (i.e., determining where the packet gets routed to next) [see Col. 12. Line 55 to Col. 13, Line 9]; and

replicating the packet for each "next hop" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22].

Haggerty does not explicitly teach distributing electronic mail message across the network using multicast technique. However, Haggerty does suggest the use of multicasting in transmission of messages/packets over the Internet such as

transmission of corporate messages to employees and video/audio conferencing [see Col. 7, Lines 5-20]. This implies that there are some forms of electronic messages involved in transmission/reception in the network.

Hardjono, in the same field of messages/packets multicasting endeavor, discloses multicasting technique is well-known in the art for transmitting data messages such as e-mail messages to selected groups of users across the network like the Internet [see Hadjono, Abstract and Col. 1, Lines 13-25]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more users to easily create and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

Regarding claim 14, Haggerty further teaches the computer readable medium as defined in claim 13, further comprising the instruction for :

forwarding a copy of the packet to each "next hop" (i.e., copying an incoming multicast packet onto each of its going tree links) [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45].

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Regarding claim 15, Haggerty teaches the computer readable medium as defined in claim 14 with instructions for carrying out all of the steps such as receiving a packet containing address information for a list of destinations (i.e., receiving multicast packet with destination IP address of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12], determining the "next hop" for each of those destinations (i.e., determining where the packet gets routed to next) [see Col. 12, Line 55 to Col. 13, Line 9], and replicating the packet for each "next hop" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22]. In addition, Haggerty further teaches multicasting of different types of packets across the networks [see Col. 11, Lines 45-67 and Col. 12, Lines 30-31 and Figs. 4-5]. This suggests that multiple packets are processed and sent across the network from one hop to the next. Therefore, the determining, replicating and forwarding steps are repetitively executed for each newly received packet.

Regarding claim 17, Haggerty teaches an intermediate node for distributing packets or messages efficiently across a network of information processing units (= Mcast Hosts) and intermediate nodes (= Mcast Routers/Switches) (i.e., multicasting packets across switch/router networks) [see Figs. 2-5 and Abstract], the intermediate node comprising :

a reception unit for receiving a message in a multicast packet including a plurality of destination addresses (i.e., receiving multicast packet with destinations IP addresses

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of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12];

a determination unit for determining the "next hop" for each destination address of the plurality of destination addresses (i.e., determining where the packet gets routed to next) [see Col. 12, Line 55 to Col. 13, Line 9]; and

a copying unit for replicating the packet for each of the "next hops" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22].

Haggerty does not explicitly teach distributing electronic mail message across the network using multicast technique. However, Haggerty does suggest the use of multicasting in transmission of messages/packets over the Internet such as transmission of corporate messages to employees and video/audio conferencing [see Col. 7, Lines 5-20]. This implies that there are some forms of electronic messages involved in transmission/reception in the network.

Hardjono, in the same field of messages/packets multicasting endeavor, discloses multicasting technique is well-known in the art for transmitting data messages such as e-mail messages to selected groups of users across the network like the Internet [see Hadjono, Abstract and Col. 1, Lines 13-25]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more users to easily create

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and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

Regarding claim 18, Haggerty further teaches the intermediate node as defined in claim 17, further comprising :

a forwarding unit for forwarding a copy of the packet to each of the "next hops" (i.e., copying an incoming multicast packet onto each of its going tree links) [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45].

Regarding claim 19, Haggerty further teaches the intermediate node as defined in claim 18 such as a reception unit for receiving a packet containing address information for a plurality of destinations (i.e., receiving multicast packet with destination IP address of a multicast group) [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12], a determination unit for determining the "next hop" for each of the destinations (i.e., determining where the packet gets routed to next) [see Col. 12, Line 55 to Col. 13, Line 9], and a copying unit for replicating the packet for each of the "next hops" (i.e., messages or multicast packets are replicated when the tree branches) [see Col. 6, Lines 12-22]. In addition, Haggerty further teaches multicasting of different types of packets across the networks [see Col. 11, Lines 45-67 and Col. 12, Lines 30-31 and Figs. 4-5]. This suggests that multiple packets are processed and sent across the

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network from one hop to the next. Therefore, the determining, replicating and forwarding steps are repetitively executed for each newly received packet.

3. Claims 2, 4, 7, 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggerty et al (Hereafter, Haggerty), U.S. Pat. No. 6,331,983 in view of Hardjono, U.S. Pat. No. 6,643,773 and further in view of Boivie et al, "Small Group Multicast: A New Solution for Multicasting on the Internet", IEEE, May-June 2000 (Hereafter, SGM).

Regarding claim 2, Haggerty and Hardjono do not explicitly teach the method as defined in claim 1, wherein the reliable multicast technique comprises a reliable small group multicast technique. However, Haggerty does suggest the use of the Internet Group Management Protocol (IGMP) for managing requests to join a multicast group(s) and receive multicast traffic [see Col. 3, Lines 21-29 and Col. 4, Lines 56-61].

SGM, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Small Group Multicast (SGM) scheme [see SGM, Page 75, third column and Page 77]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate small group multicast technique, disclosed by SGM, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to support data multicasting to a fairly small group of only a few parties and thus improve the scalability of large scale groups involving multicasting process [see SGM, Page 75, third column and Page 78].

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Claims 4 and 7 are rejected under the same rationale set forth above to claim 2.

Regarding claim 9, Haggerty and Hardjono do not explicitly teach the method as defined in claim 8 wherein the determining, replicating and forwarding steps operate according to a small group multicast scheme. However, Haggerty does suggest the use of the Internet Group Management Protocol (IGMP) for managing requests to join a multicast group(s) and receive multicast traffic [see Col. 3, Lines 21-29 and Col. 4, Lines 56-61].

SGM, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Small Group Multicast (SGM) scheme [see SGM, Page 75, third column and Page 77]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate small group multicast technique, disclosed by SGM, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to support data multicasting to a fairly small group of only a few parties and thus improve the scalability of large scale groups involving multicasting process [see SGM, Page 75, third column and Page 78].

Regarding claim 12, Haggerty and Hardjono do not explicitly teach the method as defined in claim 8, wherein the multicast packet comprises a small group multicast packet. However, Haggerty does suggest the use of the Internet Group Management

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Protocol (IGMP) for managing requests to join a multicast group(s) and receive multicast traffic [see Col. 3, Lines 21-29 and Col. 4, Lines 56-61].

SGM, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Small Group Multicast (SGM) scheme [see SGM, Page 75, third column and Page 77]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate small group multicast technique, disclosed by SGM, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to support data multicasting to a fairly small group of only a few parties and thus improve the scalability of large scale groups involving multicasting process [see SGM, Page 75, third column and Page 78]. Therefore, the multicast packet comprises a small group multicast packet for supporting small group multicast scheme.

4. Claims 5, 11, 16 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haggerty et al (Hereafter, Haggerty), U.S. Pat. No. 6,331,983 in view of Hardjono, U.S. Pat. No. 6,643,773 and further in view of Provino et al (Hereafter, Provino), U.S. Pat. No. 6,269,085.

Regarding claim 5, Haggerty and Hardjono do not explicitly teach the information processing unit as defined in claim 3, wherein the transmission unit operates according to a communication protocol to process ACKs and NAKs as well as packet

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retransmissions. However, Hardjono does suggest the use of acknowledgments received from neighbor nodes [see Hardjono, Col. 17, Lines 39-54].

Provino, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Acknowledgments (ACKs) and Negative Acknowledgments (NACKs) and retransmission of data packets [see Provino, Col. 1, Lines 10-21]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate processing ACK and /or NACK and performing packet retransmissions, disclosed by Provino, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to indicate whether data packets were correctly received or need to be retransmitted [see Provino, Col. 2, Lines 5-11]. Thus, it would offer a more reliable multicasting of packets/messages in the network.

Regarding claim 11, Haggerty and Hardjono do not explicitly teach the method as defined in claim 8, further comprising the steps of processing ACKs and/or NAKs and performing packet retransmissions. However, Hardjono does suggest the use of acknowledgments received from neighbor nodes [see Hardjono, Col. 17, Lines 39-54].

Provino, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Acknowledgments (ACKs) and Negative Acknowledgments (NACKs) and retransmission of data packets [see Provino, Col. 1, Lines 10-21]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate processing ACK and /or NACK and performing

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packet retransmissions, disclosed by Provino, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to indicate whether data packets were correctly received or need to be retransmitted [see Provino, Col. 2, Lines 5-11]. Thus, it would offer a more reliable multicasting of packets/messages in the network.

Regarding claim 16, Haggerty and Hardjono do not explicitly teach the computer readable medium as defined in claim 15, further comprising the instructions for processing ACKs and/or NAKs and handling packet retransmissions. However, Hardjono does suggest the use of acknowledgments received from neighbor nodes [see Hardjono, Col. 17, Lines 39-54].

Provino, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Acknowledgments (ACKs) and Negative Acknowledgments (NACKs) and retransmission of data packets [see Provino, Col. 1, Lines 10-21]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate processing ACK and /or NACK and performing packet retransmissions, disclosed by Provino, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to indicate whether data packets were correctly received or need to be retransmitted [see Provino, Col. 2, Lines 5-11]. Thus, it would offer a more reliable multicasting of packets/messages in the network.

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Regarding claim 20, Haggerty and Hardjono do not explicitly teach the intermediate node as defined in claim 19, further comprising an acknowledge unit for processing ACKs and/or NAKs and a retransmit unit for handling packet retransmissions. However, Hardjono does suggest the use of acknowledgments received from neighbor nodes [see Hardjono, Col. 17, Lines 39-54].

Provino, in the same field of messages/packets multicasting endeavor, discloses the use of multicasting data transmission with Acknowledgments (ACKs) and Negative Acknowledgments (NACKs) and retransmission of data packets [see Provino, Col. 1, Lines 10-21]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate processing ACK and /or NACK and performing packet retransmissions, disclosed by Provino, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to indicate whether data packets were correctly received or need to be retransmitted [see Provino, Col. 2, Lines 5-11]. Thus, it would offer a more reliable multicasting of packets/messages in the network.

Response to Arguments

5. Applicant's arguments have been fully considered but they are not persuasive because of the following reasons:

Haggerty teaches a method and system for distributing packets or messages efficiently across a network of information processing units (= Mcast Hosts) and intermediate nodes (= Mcast Routers/Switches). For example, Haggerty discloses multicasting packets across switch/router networks [see Figs. 2-5 and Abstract].

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wherein receiving a message created by a user with a plurality of destinations, the user being the sender of the mail message. For example, Haggerty discloses receiving multicast packet with destinations IP addresses of a multicast group [see Col. 11, Line 60 to Col. 12, Line 15 and Col. 12, Line 55 to Col. 13, Line 12]. Haggerty further teaches sending a single copy of the message, in a multicast packet including a plurality of destination addresses, across the network via at least one intermediate nodes to addresses corresponding to the list of destination addresses. For example, copying an incoming multicast packet onto each of its going tree links [see Col. 6, Lines 12-22 and Col. 13, Lines 36-45] using a reliable multicast technique. That is, reliable delivery of multicast packets/messages with acknowledgment [see Col. 17, Lines 30-64].

Moreover, Haggerty further teaches determining the "next hop" for each destination address of the plurality of destination addresses. For example, Haggerty discloses determining where the packet gets routed to next [see Col. 12, Line 55 to Col. 13, Line 9]. Haggerty also teaches replicating the packet for each "next hop". For example, messages or multicast packets are replicated when the tree branches [see Col. 6, Lines 12-22].

Though Haggerty does not explicitly teach distributing electronic mail message across the network using multicast technique. Hardjono, in the same field of messages/packets multicasting endeavor, discloses multicasting technique is well-known in the art for transmitting data messages such as e-mail messages to selected groups of users across the network like the Internet [see Hadjono, Abstract and Col. 1, Lines 13-25]. It would have been obvious to one of ordinary skill in the art at the time of

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the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more users to easily create and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

Therefore, applicant's argument is not persuasive because combination of Haggerty and Hardjono teaches the broad limitations as cited in the claims as shown above.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate multicasting technique for e-mail messages, disclosed by Hadjono, into the transmission of multicast messages/packets across the network of information processing units and intermediate nodes disclosed by Haggerty, in order to allow more

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users to easily create and join multicasting sessions [see Hadjono, Col. 1, Lines 13-25]. Thus, it would offer cost savings in network resources since network processing and bandwidth are conserved by transmitting a single copy of messages/packets over a distribution tree that branches out to destinations across the network.

As a result, cited prior art does disclose a system and method for distributing electronic mail efficiently across a network through intermediate nodes as routers, as broadly claimed by the applicants. Applicants clearly have still failed to identify specific claimed limitations that would define a clearly patentable distinction over prior arts. Therefore, the examiner asserts that cited prior art teaches or suggests the subject matter broadly recited in independent claims. Dependent claims are also rejected at least by virtue of dependency on independent claims and by other reasons shown above. Accordingly, rejections for claims 1-20 are respectfully maintained.

6. A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS ACTION IS SET TO EXPIRE THREE MONTHS, OR THIRTY DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. FAILURE TO RESPOND WITHIN THE PERIOD FOR RESPONSE WILL CAUSE THE APPLICATION TO BECOME ABANDONED (35 U.S.C. § 133). EXTENSIONS OF TIME MAY BE OBTAINED UNDER THE PROVISIONS OF 37 CAR 1.136(A).

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tran whose telephone number is (571) 272-3991. The Group fax phone number is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam, can be reached on (571) 272-3978.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Philip B. Tran Art Unit 2155

Philip Tran

Feb 15, 2005